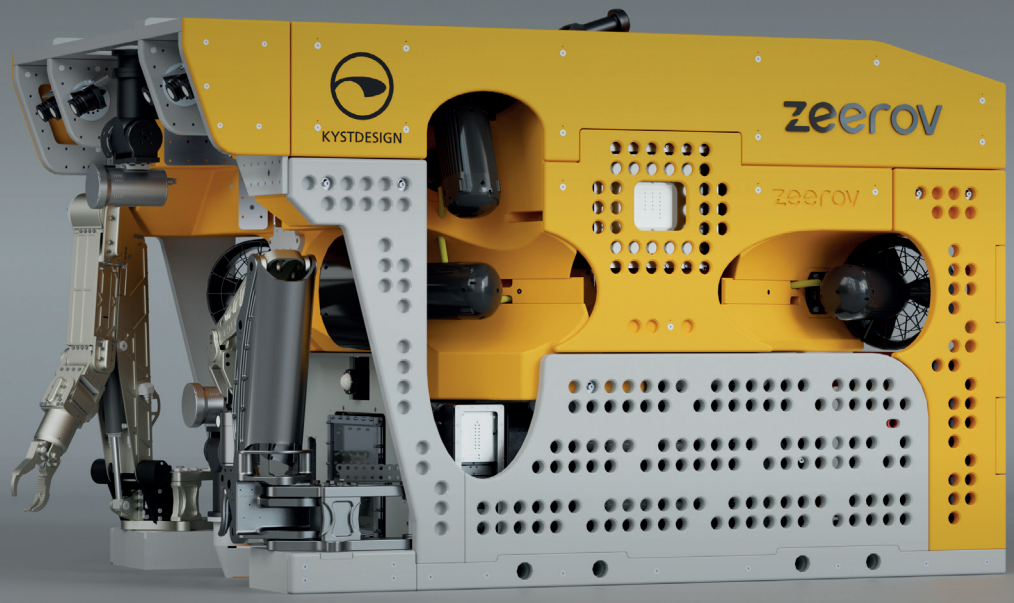
zeerov

THE NEW GENERATION ROV.

FULL ELECTRIC WORK-CLASS ROV



The new generation ROV, ZEEROV, is a full electric work-class ROV with an impressive power management system that gives the ROV increased power and better maneuverability within the same size as the successful Supporter ROV. The ZEEROV is designed with a high focus on reliability and flexibility which is the key success factor for achieving long term submersion and effective remote control from shore.

KYSTDESIGN

The ZEEROV ROV accommodates up to 49 electrical connectors for interface of external equipment, such as manipulators, tooling, survey sensors and cameras. All electrical power supplies are ground-fault monitored.

The ROV control system is prepared for a variety of auto functions like AutoPOS and AutoTRACK capabilities, in addition to over-the-horizon control from a Remote Operation Center (ROC) onshore.

SPECIFICATIONS, ZEEROV

General Specifications:

Dimensions (L/W/H)	2750 / 1700 / 1690 mm
Weight	3800 kg
Payload	600 kg
Through Frame Lift	1500 kg
Depth Rating	2000m (Optional 3000, 4000 & 5000m)

Designed for 30 days submersion.
PE panels on top and all sides of ROV.

Thrusters:

- 7 x KD-300 thrusters, 800VDC
- Simultaneous continuous power of 16kw on each thruster
- 20kW nominal power
- ~30kW peak power

Each thruster can be individual isolated

Bollard Pull (Calculated from thruster pool test):

FWD	1226 kg
AFT	1218 kg
Lateral	1120 kg
Vertical UP	1169 kg
Vertical DOWN	1238 kg

Electrical System:

CONTROL POD
Including (but not limited to):

- 10 x Camera connections for IP video (HP-SDI & PAL supported)
- 2 x INS connections w/data links (Gyro)
- 4 x 115VAC connection w/data link
- 10 x 24VDC connection w/data link, RS232, RS485 or TTL
- Only one fiber needed for all communications

CONTROL POD OPTIONS

- 2 x 48VDC connection w/data link, MinK10 w/gigabit ethernet (MBES)
- 2 x 48VDC connection w/data link, MinK10 for survey, 5amp

ELECTRICAL TOOLING INTERFACE

- 5 x High power connections for tooling with Gb Ethernet and 30A 115VAC (115vac Instrument power is limited to 10kVA continuous & 15kVA intermittent total)
- 4 x 800Vdc 20 kW outputs with Ethernet (100Mbit/s, Powered from the main DC power bus)
- Skid connector, 20A 115 Vac w/serial link
- Fiber interface for additional CPI MUX

LIGHT JUNCTION BOX

- 10 station light controller, 6A 115Vac, max 30A in total.
- All lights separately dimmable
- Fuses are remote resettable

ROV Control System:

- Standard KD ROV Control Station
- DP/ Station Keep / Auto track included
- The control system SW is prepared for over the horizon control

PDU system:

- Fully instrumented with PLC.
- Remotely controlled over Ethernet comms
- HVP, PDU, Transformers, & Freq. converters

Hydraulic Supply (Optional):

Removable HPU incl. valve pack for operation of hydraulic manipulators and light tooling:

- 6 kW HPU
- VP with 8off proportional controlled NG3 valves

Other sizes and configurations upon request

Skid:

A variety of versions are available upon request

TMS:

E-TMS available

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